

Dr. Duke's Phytochemical and Ethnobotanical Databases

List of Plants for FRUCTOSE

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Phoenix dactylifera</i>	Fruit		308000.0	4.088589817170726	Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
<i>Cichorium intybus</i>	Root	45000.0	220000.0	1.999334825861607	--
<i>Sambucus nigra</i>	Fruit	24100.0	154150.0	1.574573707912044	--
<i>Curcuma longa</i>	Rhizome		120000.0	1.413312598024455	Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
<i>Phoenix dactylifera</i>	Seed		15300.0	1.4089399073526936	Abstract (See species file)
<i>Teucrium montanum</i>	Leaf		33000.0	1.0362182726264935	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Tamarindus indica</i>	Fruit	90000.0	120000.0	1.0165389329287229	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Asimina triloba</i>	Fruit	13000.0	119658.0	1.0109504148307933	--
<i>Lycoris radiata</i>	Bulb		21400.0	1.0	--
<i>Ceratonia siliqua</i>	Fruit	50700.0	118300.0	0.9887597494010026	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Solanum nigrum</i>	Fruit	75000.0	100000.0	0.6897250090731907	--
<i>Pinus sylvestris</i>	Leaf		25000.0	0.31537077862545454	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Prunus cerasus</i>	Fruit	61000.0	72400.0	0.2387217941525563	--
<i>Manilkara zapota</i>	Fruit	44700.0	71300.0	0.22074702834050203	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
<i>Prunus domestica</i>	Fruit	27000.0	61000.0	0.05243785755490293	USDA's Ag Handbook 8 and sequelae)
<i>Malus domestica</i>	Fruit	50100.0	60800.0	0.04916971831634761	--
<i>Vaccinium vitis-idaea</i>	Fruit		50000.0	-0.12730980056563979	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Mangifera indica</i>	Fruit	25700.0	48300.0	-0.15508898409336003	--
<i>Opuntia ficus-indica</i>	Fruit	4500.0	44100.0	-0.22371990810302178	--
<i>Prunus armeniaca</i>	Fruit	14000.0	42000.0	-0.25803537010785266	--
<i>Ribes uva-crispa</i>	Fruit		41000.0	-0.2743760663006293	--
<i>Ribes nigrum</i>	Fruit		36700.0	-0.34464105992956867	--
<i>Musa x paradisiaca</i>	Fruit		35000.0	-0.3724202434572889	Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
<i>Valeriana officinalis</i>	Root		9000.0	-0.4564787045656782	--
<i>Panax ginseng</i>	Root	200.0	6000.0	-0.4913954846191467	--
<i>Panax quinquefolius</i>	Root		3400.0	-0.5216566939988194	--
<i>Harpagophytum procumbens</i>	Root		2700.0	-0.529803942677962	--
<i>Citrus sinensis</i>	Fruit		23800.0	-0.555436040816387	--
<i>Ananas comosus</i>	Fruit	6000.0	23000.0	-0.5685085977706082	--
<i>Ficus carica</i>	Fruit		22950.0	-0.569325632580247	Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
<i>Theobroma cacao</i>	Seed		2000.0	-0.5987994606248948	--
<i>Humulus lupulus</i>	Fruit	15000.0	20000.0	-0.617530686348938	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Ribes rubrum</i>	Fruit		19300.0	-0.6289691736838817	--
<i>Physalis ixocarpa</i>	Fruit	3420.0	18980.0	-0.6341981964655702	--
<i>Spondias pinnata</i>	Fruit		18000.0	-0.6502120787344913	--
<i>Arnica montana</i>	Rhizome		25000.0	-0.662945600104255	--
<i>Phytolacca americana</i>	Fruit		14000.0	-0.7155748635055977	--
<i>Polypodium vulgare</i>	Rhizome		21000.0	-0.7503669979202007	--
<i>Lycopersicon esculentum</i>	Fruit		11700.0	-0.753158464748984	--
<i>Terminalia chebula</i>	Fruit		10000.0	-0.7809376482767042	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Triticum aestivum	Seed		600.0	-0.8101404467277988	--
Vanilla planifolia	Fruit		7500.0	-0.8217893887586457	--
Zea mays	Fruit	1000.0	4000.0	-0.878981825433364	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Allium sativum var. sativum	Bulb		14000.0	-1.0	--
Panax ginseng	Leaf		6500.0	-1.351589051251948	--
Portulaca oleracea	Plant				--
Acacia nilotica	Plant				--
Allium sativum var. sativum	Leaf				Osman, S. A. 1980. Chemical and Biological Studies of Onion and Garlic in an Attempt to Isolate a Hypoglycaemic Extract. Abstr. 4th Asian Symp. Med. Plants Spices Bangkok, Thailand, September 15-19: 117.
Sinapis alba	Seed				--
Daucus carota	Root				--
Vinca minor	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Silybum marianum	Seed				--
Annona muricata	Plant				--
Nicotiana tabacum	Root				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Vetiveria zizanioides	Root				--
Glycine max	Stem				--
Hordeum vulgare	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Aconitum napellus	Root				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Leonotis nepetaefolia</i>	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Rubus idaeus</i>	Fruit				--
<i>Plantago ovata</i>	Seed				--
<i>Ligustrum japonicum</i>	Fruit				--
<i>Teucrium polium</i>	Plant				Rizk, A.F.M., The Phytochemistry of the Flora of Qatar, Scientific and Applied Research Centre, University of Qatar, Kingprint, Richmond, UK, 1986.
<i>Acacia decurrens</i>	Plant				--
<i>Panax quinquefolius</i>	Tissue Culture				--
<i>Carica papaya</i>	Fruit				Jim Duke's personal files.
<i>Vaccinium myrtillus</i>	Fruit				--
<i>Carica papaya</i>	Bark				Jim Duke's personal files.
<i>Aloe vera</i>	Plant				Pakistan Encyclopedia Planta Medica. 1986.
<i>Carica papaya</i>	Leaf				Jim Duke's personal files.
<i>Anastatica hierochuntica</i>	Fruit				--
<i>Panax ginseng</i>	Tissue Culture				--
<i>Panax ginseng</i>	Stem		1800.0		--
<i>Elytrigia repens</i>	Rhizome				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
<i>Taraxacum officinale</i>	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
<i>Cydonia oblonga</i>	Fruit				--
<i>Urtica dioica</i>	Root				Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin.

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Allium cepa	Leaf				Osman, S. A. 1980. Chemical and Biological Studies of Onion and Garlic in an Attempt to Isolate a Hypoglycaemic Extract. Abstr. 4th Asian Symp. Med. Plants Spices Bangkok, Thailand, September 15-19: 117.
Juniperus communis	Fruit				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
Cocos nucifera	Juice		22200.0		Jim Duke's personal files.
Cocos nucifera	Root				Jim Duke's personal files.
Coriandrum sativum	Fruit				--
Veratrum album	Root				--
Serenoa repens	Fruit				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Psidium guajava	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Scrophularia buergeriana	Root				--
Asparagus lucidus	Root				--
Crocus sativus	Silk Stigma Style				--
Medicago sativa	Plant				--
Maclura pomifera	Shoot				--
Prunella vulgaris	Na				--
Angelica sinensis	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
Piper methysticum	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Pinus sylvestris	Bark				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Trigonella foenum-graecum	Seed				--

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<i>Trigonella foenum-graecum</i>	Plant				--
<i>Citrus paradisi</i>	Plant		12400.0		--
<i>Tussilago farfara</i>	Leaf				--
<i>Zingiber officinale</i>	Root				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Ligustrum lucidum</i>	Fruit				Chemical Constituents of Oriental Herbs (3 diff. books)
<i>Arctium lappa</i>	Root				Jim Duke's personal files.
<i>Melilotus indica</i>	Plant				--
<i>Cuscuta reflexa</i>	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Asparagus officinalis</i>	Rhizome				--
<i>Aloe vera</i>	Leaf				Rowe, T. D., Parks, L. M. 1941. A Phytochemical Study of Aloe vera Leaf. J. Amer. Pharm. Ass. Sci. Ed., 30: 262-266.
<i>Aloe vera</i>	Stem Essent. Oil				Rowe, T. D., Parks, L. M. 1941. A Phytochemical Study of Aloe vera Leaf. J. Amer. Pharm. Ass. Sci. Ed., 30: 262-266.
<i>Rosa spp</i>	Fruit				--
<i>Rubus chingii</i>	Fruit				--
<i>Artemisia dracunculus</i>	Leaf				--
<i>Rosa canina</i>	Fruit				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
<i>Myrciaria dubia</i>	Fruit				Jim Duke's personal files.
<i>Punica granatum</i>	Fruit				--
<i>Allium cepa</i>	Bulb				Osman, S. A. 1980. Chemical and Biological Studies of Onion and Garlic in an Attempt to Isolate a Hypoglycaemic Extract. Abstr. 4th Asian Symp. Med. Plants Spices Bangkok, Thailand, September 15-19: 117.
<i>Apium graveolens</i>	Shoot				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Theobroma cacao</i>	Plant				--
<i>Terminalia bellirica</i>	Seed				Singh, P., Sharma, S. 1997. Triterpenoid Constituents of the Seeds of <i>Diospyros melanoxylon</i> , <i>Tecomella undulata</i> and <i>Terminalia bellirica</i> . <i>J. Indian Chem. Soc.</i> 74 6: 504-505.
<i>Borago officinalis</i>	Leaf				Jim Duke's personal files.
<i>Annona squamosa</i>	Fruit				--
<i>Punica granatum</i>	Fruit Juice				--
<i>Rosa canina</i>	Seed				--
<i>Aconitum napellus</i>	Plant				--
<i>Armoracia rusticana</i>	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Rheum officinale</i>	Root				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
<i>Avena sativa</i>	Root				--
<i>Angelica archangelica</i>	Plant				Pakistan Encyclopedia Planta Medica. 1986.
<i>Cocos nucifera</i>	Resin, Exudate, Sap		2100.0		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Boswellia serrata</i>	Resin, Exudate, Sap				Sabinsa: A series of well documented proprietary PR booklets, e.g.Sabinsa Corps. 1998. Bronchial Asthma - Its etiology and control with traditional herbal extracts. Sabinsa Corporation. Piscataway, NJ. 49 pp.
<i>Vitis vinifera</i>	Fruit				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Allium ampeloprasum</i>	Plant				--
<i>Polygonum hydropiper</i>	Plant				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Jatropha curcas</i>	Seed				--
<i>Zizyphus jujuba</i>	Fruit				--
<i>Rhamnus cathartica</i>	Fruit				--
<i>Artemisia dracunculus</i>	Root				--
<i>Alocasia macrorrhiza</i>	Plant				--
<i>Ulmus rubra</i>	Bark				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Terminalia bellirica</i>	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Helianthus annuus</i>	Flower				--
<i>Harpagophytum procumbens</i>	Tuber				--
<i>Berberis vulgaris</i>	Plant				--
<i>Avena sativa</i>	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Apium graveolens</i>	Plant				--
<i>Santalum album</i>	Fruit				--
<i>Morus alba</i>	Leaf				--
<i>Teucrium chamaedrys</i>	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Olea europaea</i>	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Cyphomandra betacea</i>	Fruit				--
<i>Glycyrrhiza glabra</i>	Root				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Matricaria recutita</i>	Plant				Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of <i>Glycyrrhiza-glabra</i> . Nippon Gogeikagaku Kaishi 61(9): 1119-1122.
<i>Anogeissus latifolia</i>	Plant				--
<i>Ginkgo biloba</i>	Seed				Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of <i>Glycyrrhiza-glabra</i> . Nippon Gogeikagaku Kaishi 61(9): 1119-1122.
<i>Zingiber officinale</i>	Rhizome				--
<i>Vaccinium corymbosum</i>	Fruit				--
<i>Symphytum officinale</i>	Root				--
<i>Citrullus colocynthis</i>	Petiole				--
<i>Solanum tuberosum</i>	Plant				--